

#### ABSTRACT OF THE DISCLOSURE

A recombinant polypeptide and nucleic acid constructs capable of expressing the recombinant polypeptide are provided. The recombinant polypeptide comprises a chimeric polypeptide including an antigenic peptide being capable of binding a human MHC class I, a functional human  $\beta$ -2 microglobulin and a functional human MHC class I heavy chain.